

Synthesis Scheme of Wire-Aminouridine-Succinate

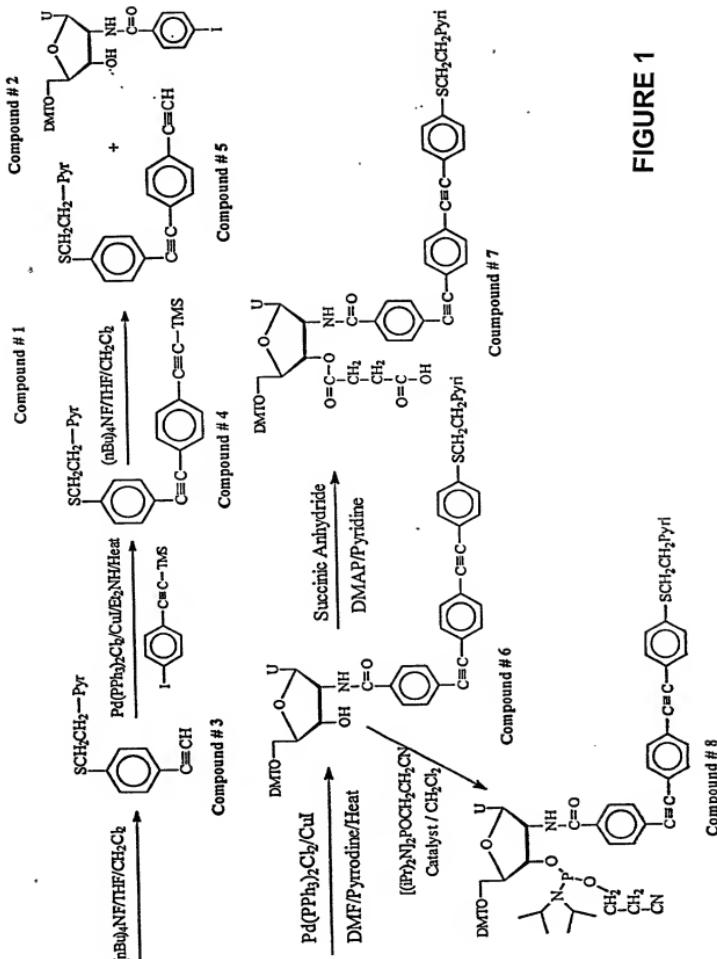
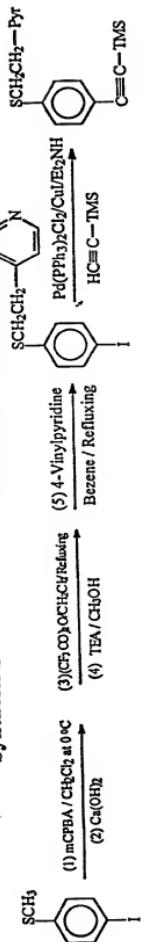


FIGURE 1

Synthesis Scheme of 2'-Arylamino-2'-Deoxy-Uridine

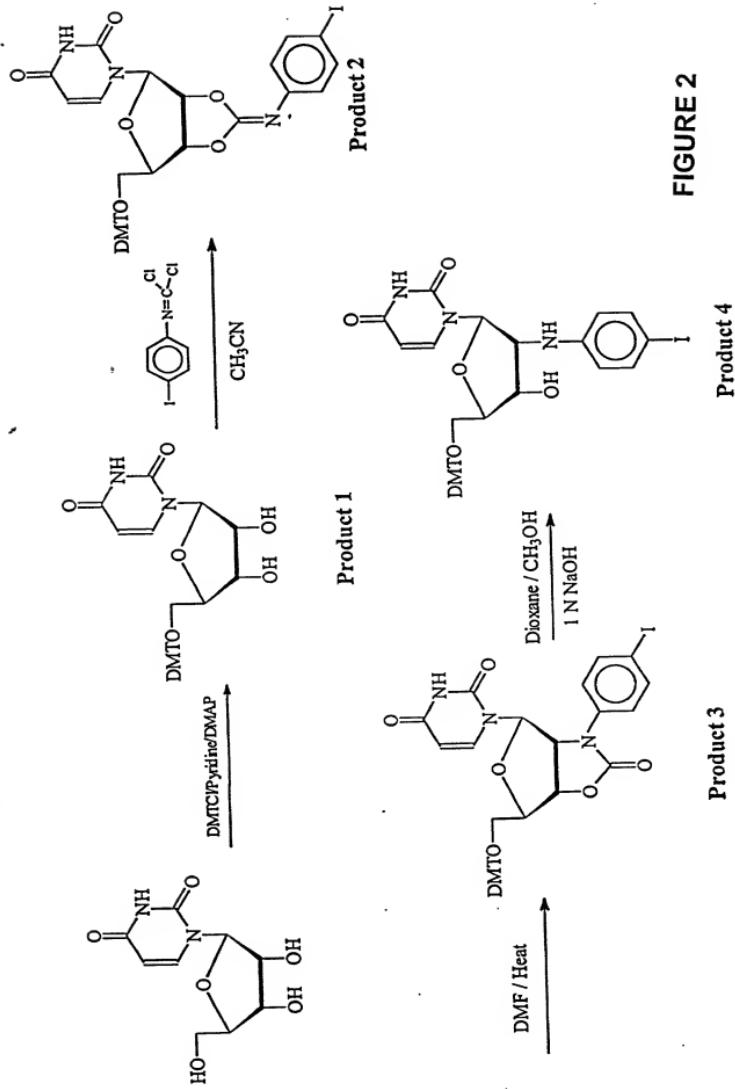


FIGURE 2

Synthesis Scheme of Base-Modified Uridine-Wire Succinate

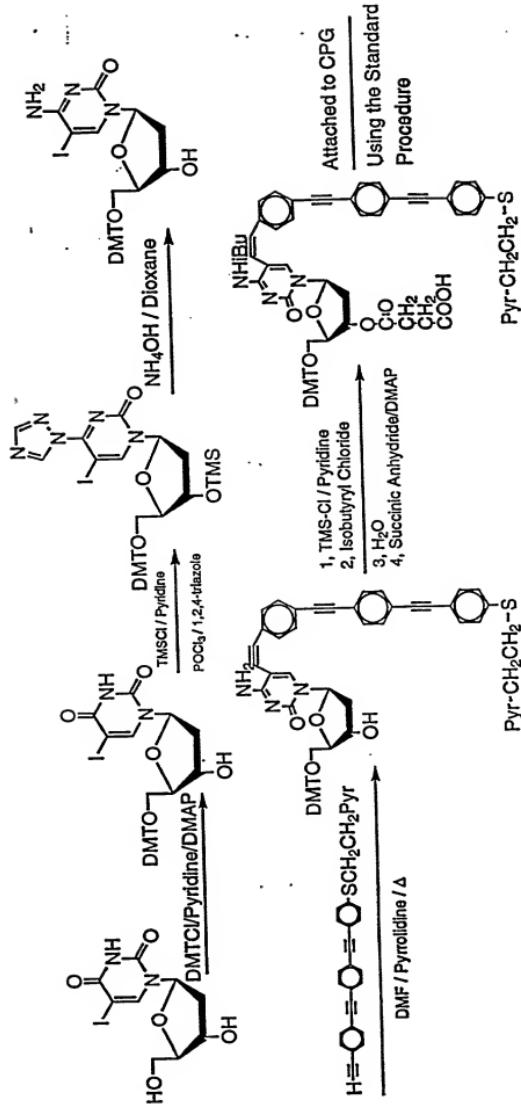


FIGURE 3

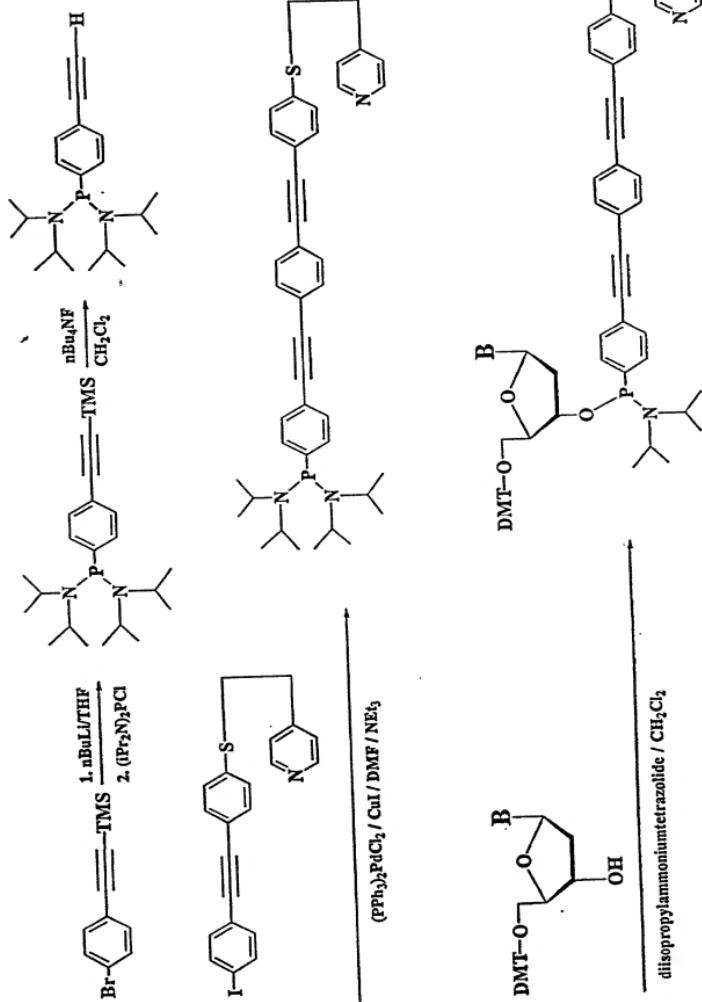
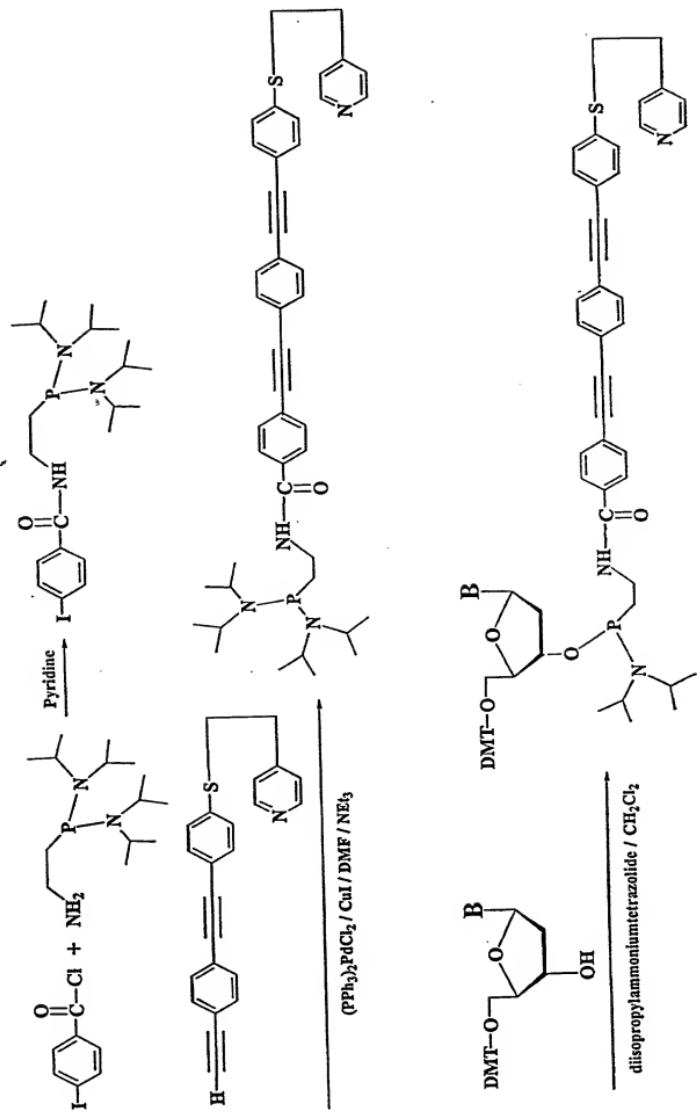


FIGURE 4

FIGURE 5



Synthesis Scheme of Substituted Three-Unit Wire

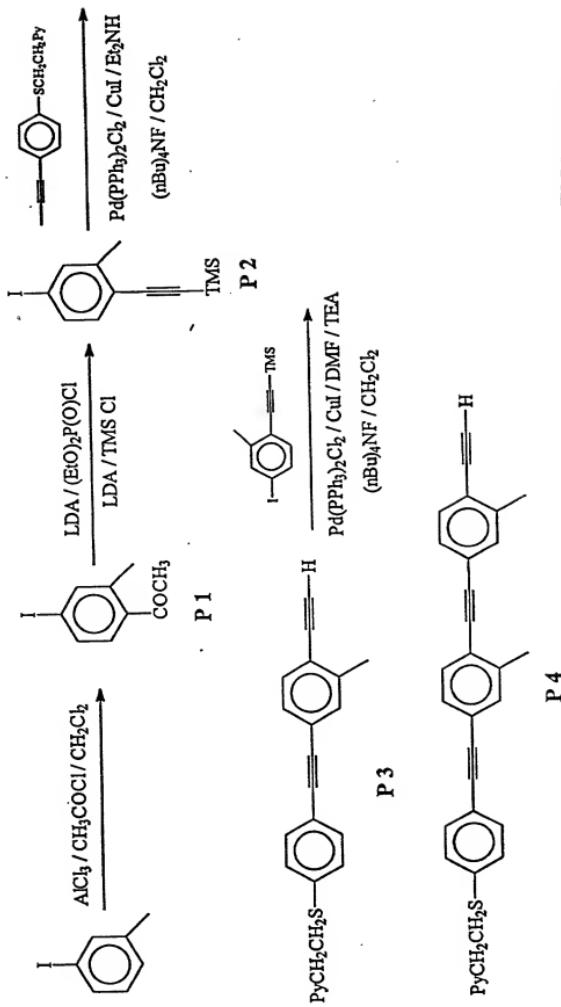


FIGURE 6

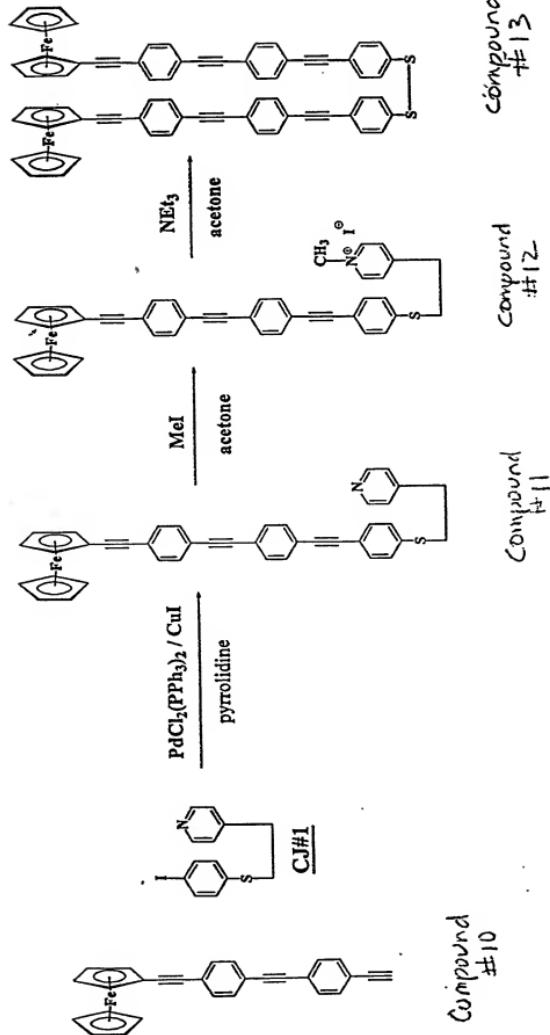


FIGURE 7

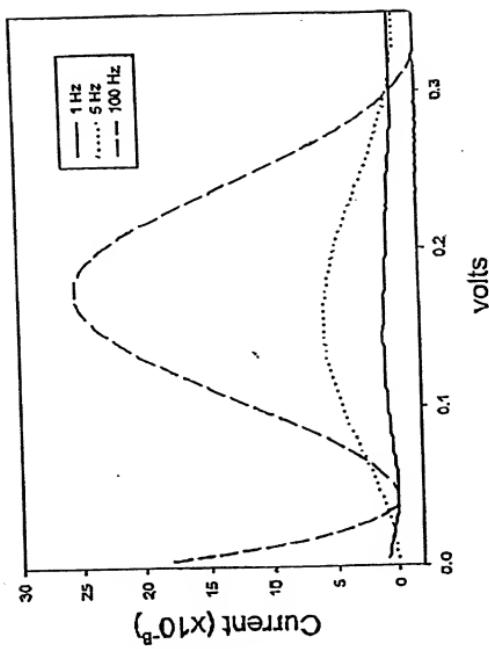
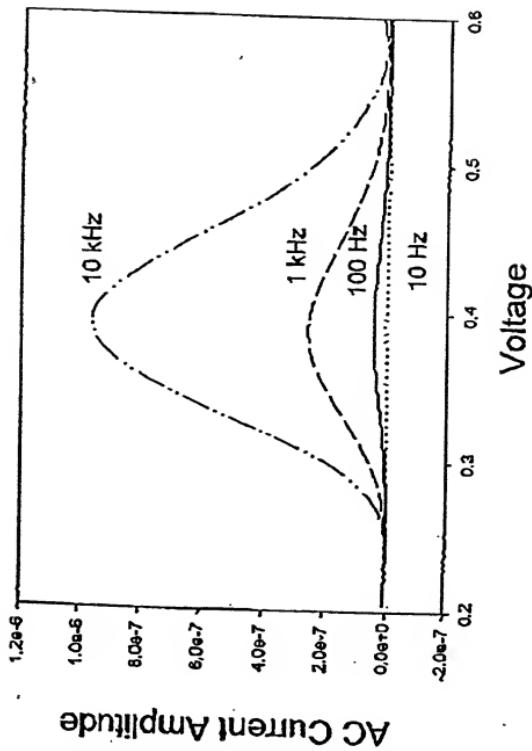


FIGURE 8

FIGURE 9A



200220 " 95676001

20230" 9567300T

Double and Single Stranded DNA

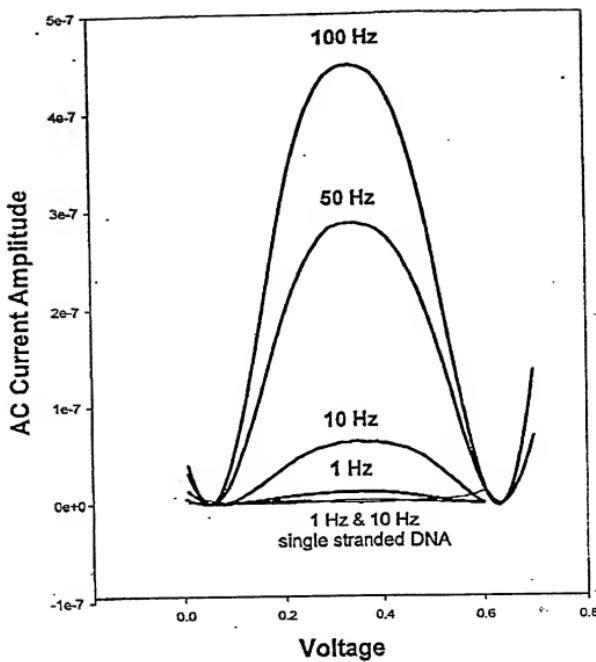
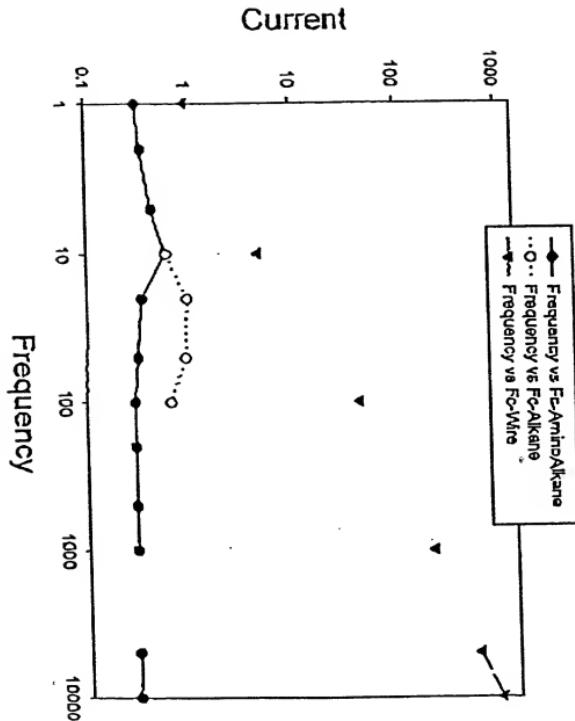


FIGURE 9B



DNA and RC circuits

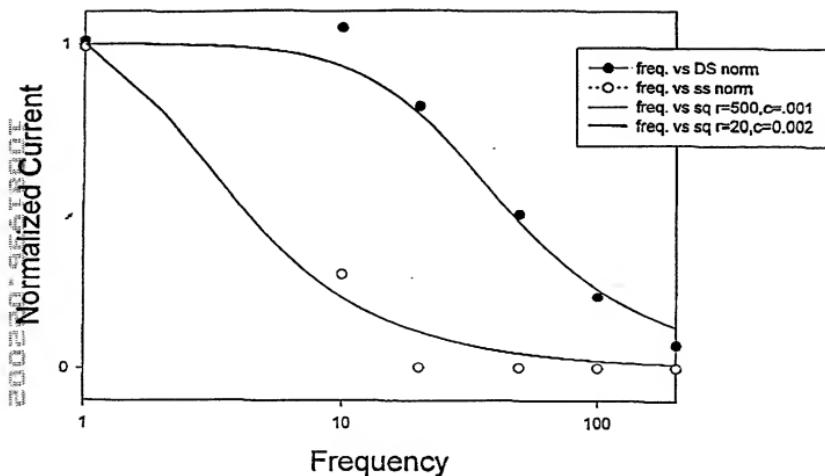
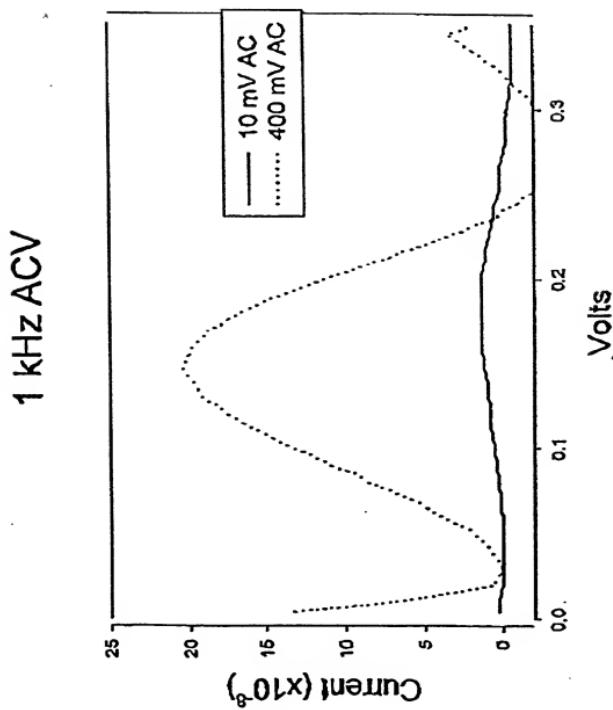


FIGURE 11

FIGURE 12



Fc alkane at 25 mV overpotential

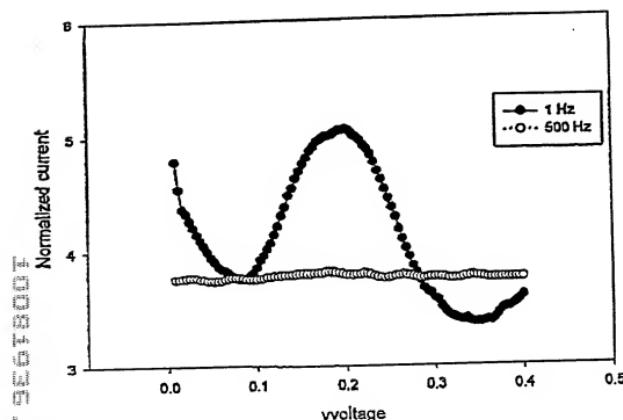


FIGURE 13A

Fc alkane, 1 Hz at 25 mV overpotential
500 Hz at 200 mV overpotential

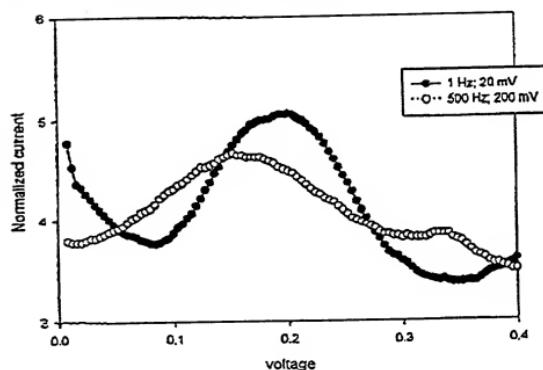


FIGURE 13B

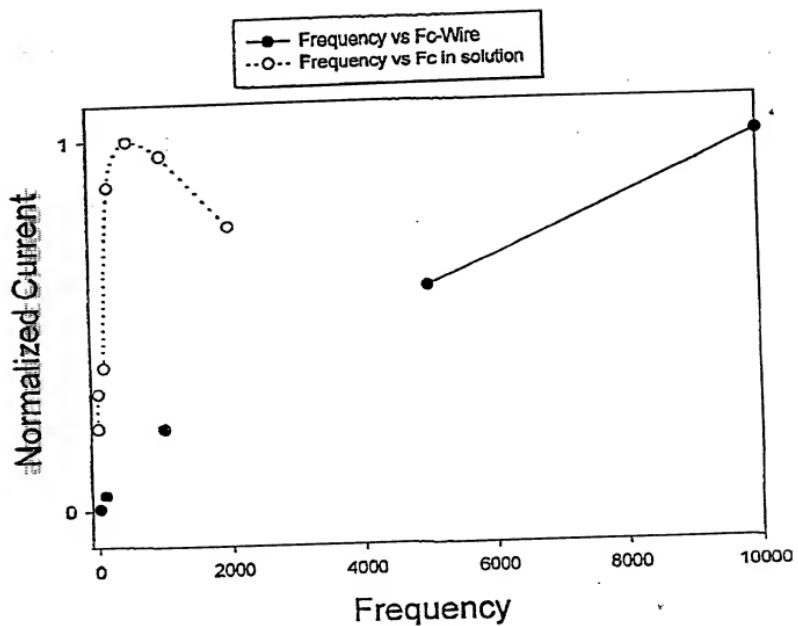
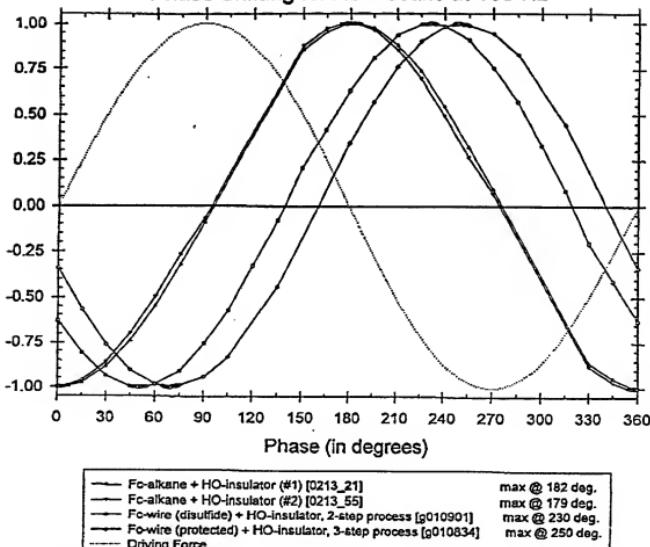


FIGURE 14

200000-35050001

Phase Shifting for ACV Scans at 100 Hz



Clinical Micro Sensors

Confidential

02/26/97

FIGURE 15A

**ACV Phase Diagram at 50Hz
For 121883d (DS) and 021007a2 (SS)**

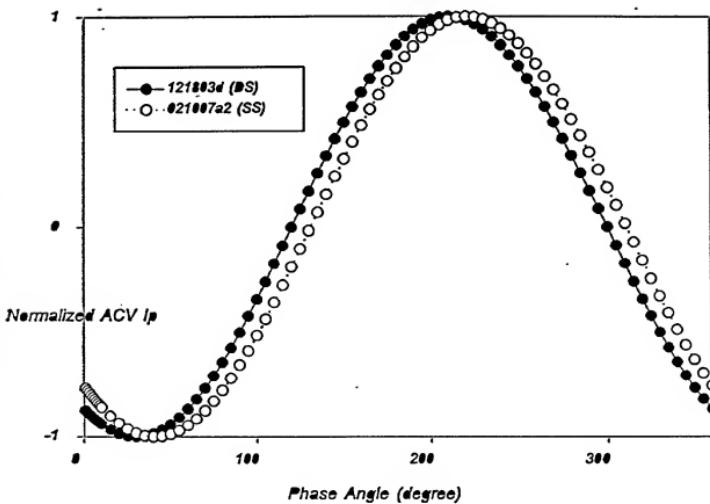


FIGURE 15B

Synthesis Scheme of the Benzylamino-Uridine

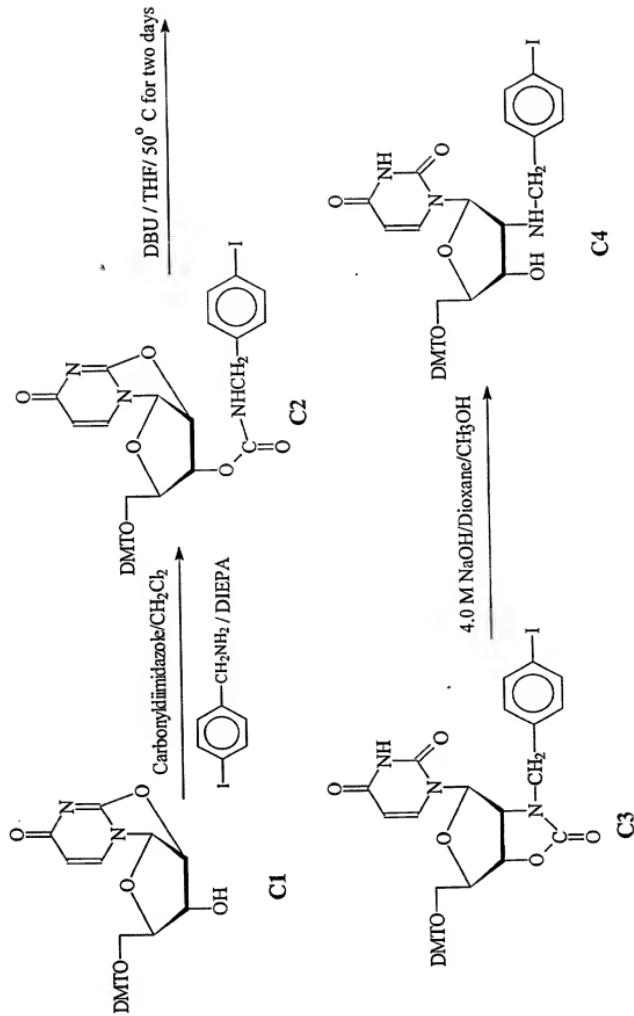


FIGURE 16

100091935 020002

Fig 17A

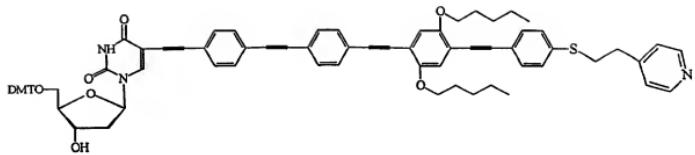


Fig 17B

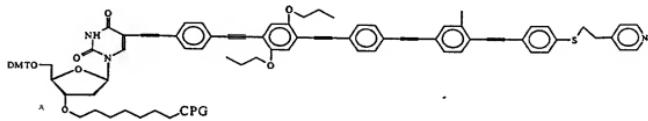


Fig 17C

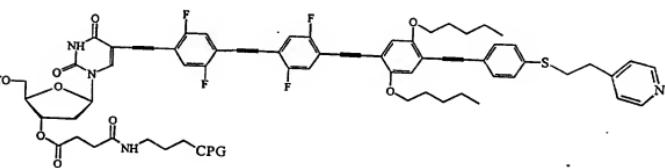
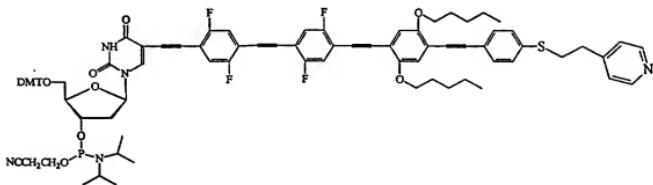


Fig 17D



卷之三

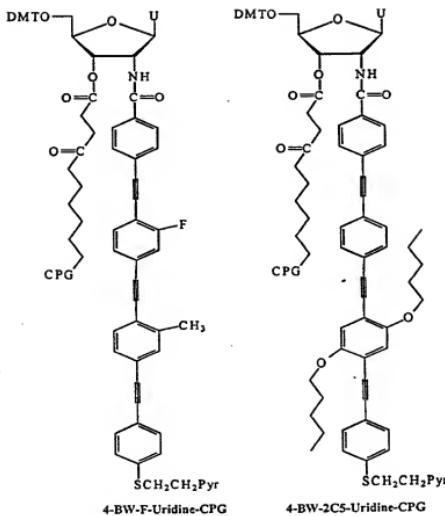


Fig 17E

Fig 17F

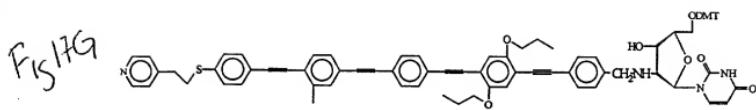
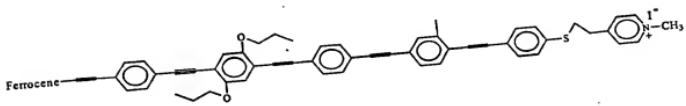


Fig
17A



Synthesis Scheme I of 4-Unit-Wire-uridine, CPG and Phosphorimidite

200220 9:56:18007

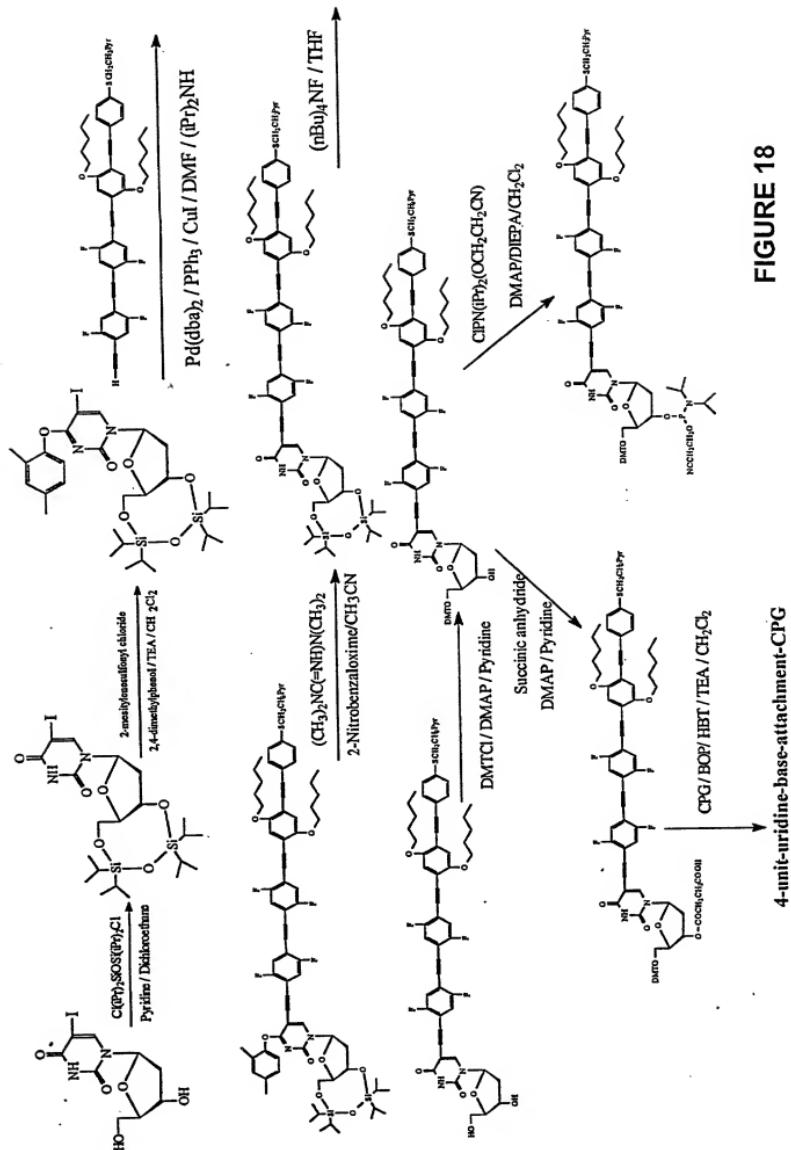


FIGURE 18

卷之三

Synthesis Scheme II of 4-Unit-Wire-uridine, CPG and Phosphorimidite

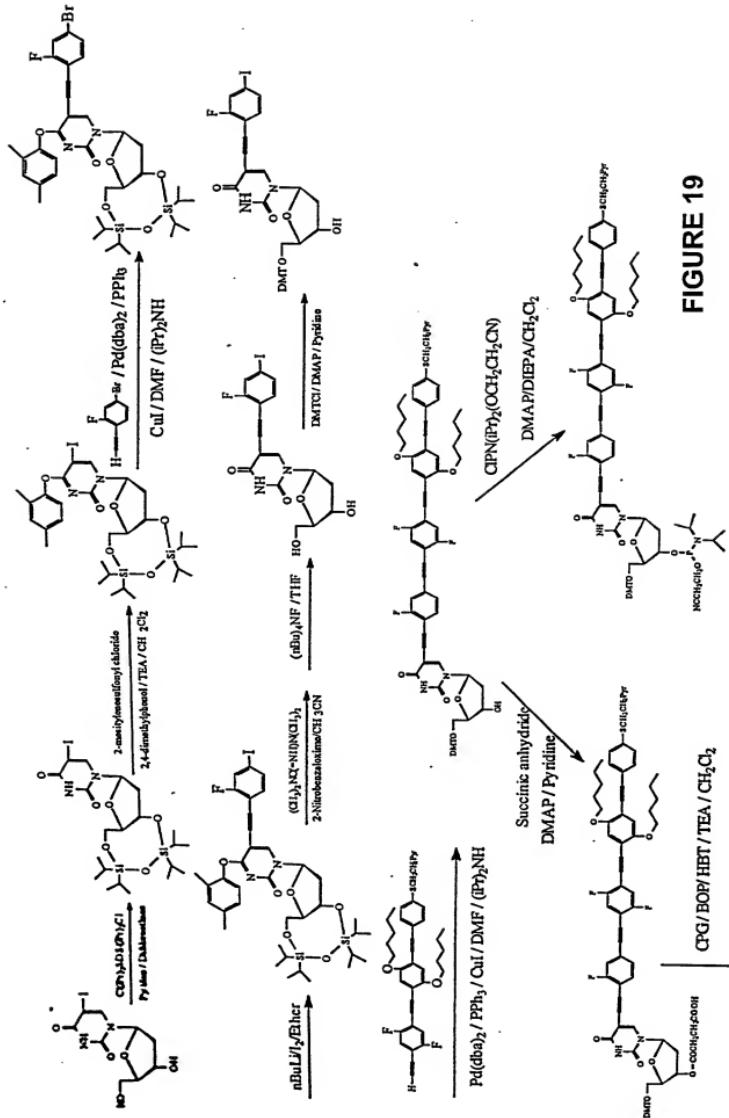


FIGURE 19

Second Generation of Sulfur Protection in the Base-Attached Wire-DNA Synthesis

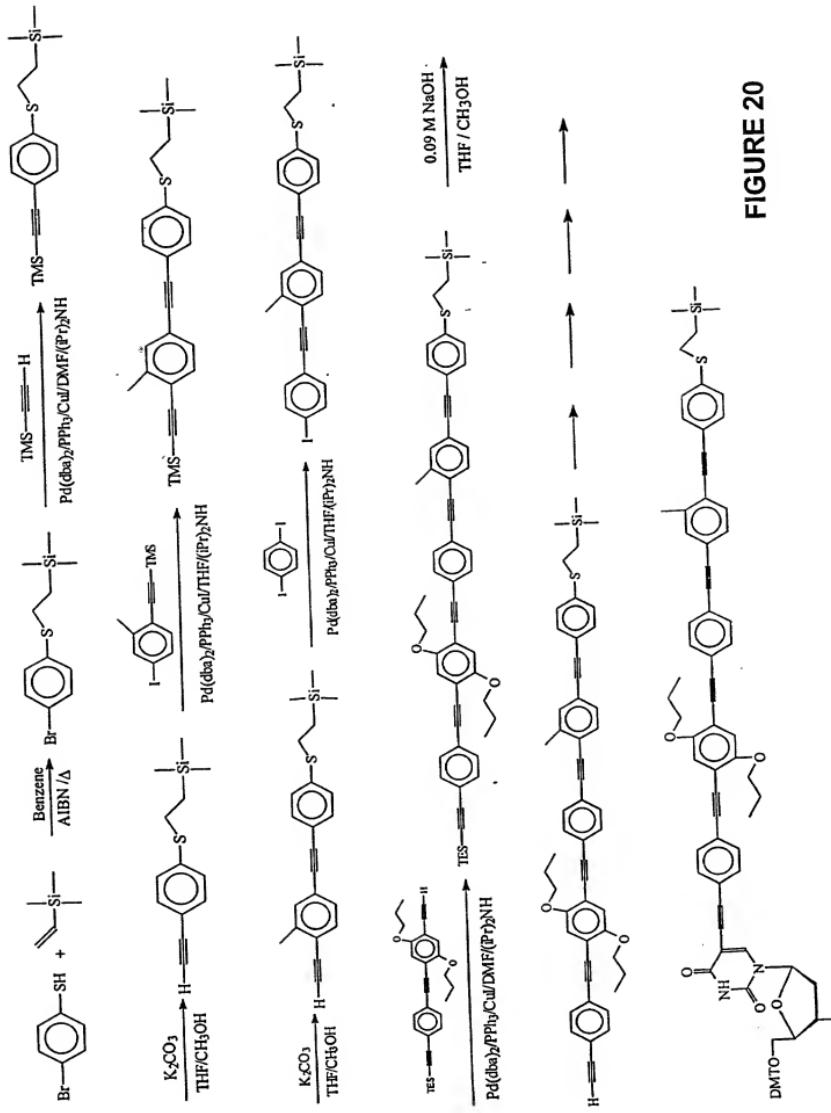


FIGURE 20

Second Generation of Sulfur Protection in the Sugar-Attached Wire-DNA Synthesis

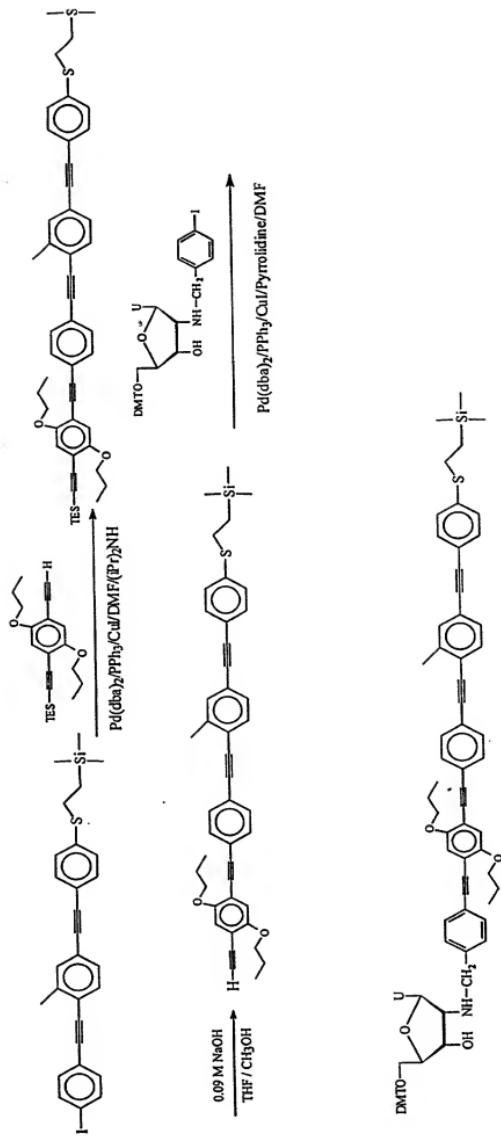


FIGURE 21

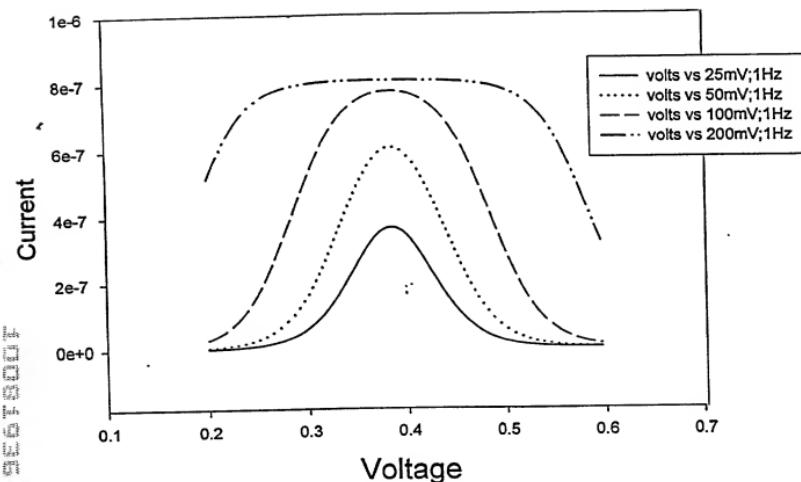


FIGURE 22A

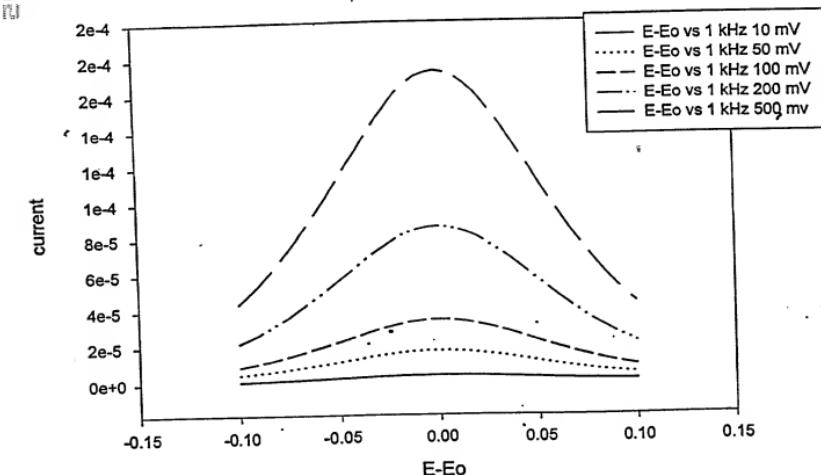
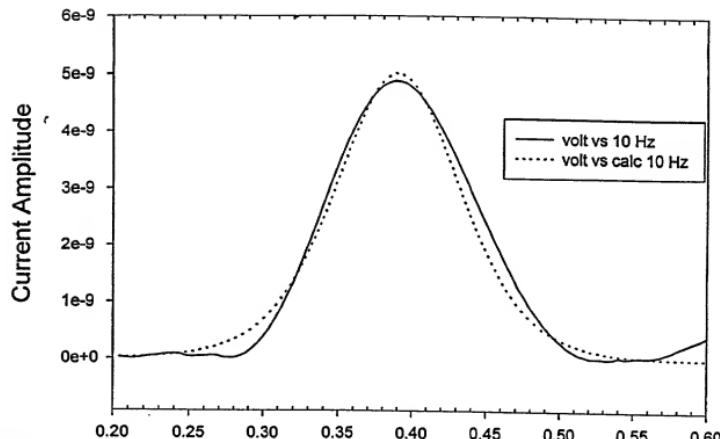


FIGURE 22B

FC-Wire for 10 Hz



20020 "SOT STUDY"

FIGURE 23A

Voltage centered around 0.38 V

FC-Wire for 100 Hz

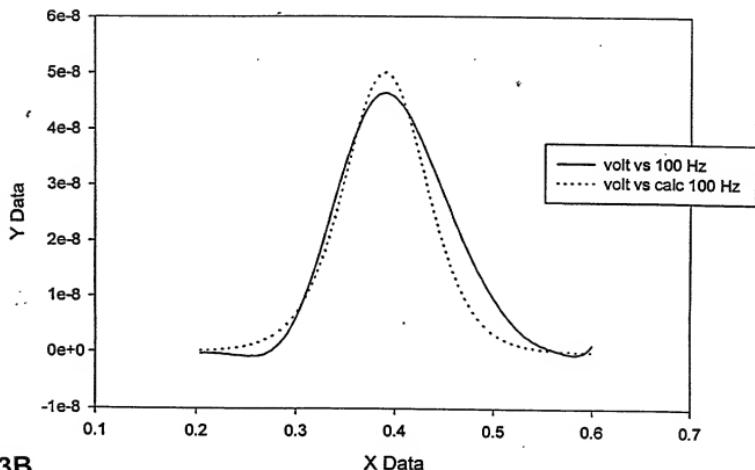


FIGURE 23B